

**[ FORMTEXT ]**

**Advance Authorization (AA) Request**

Planning Order: [ FORMTEXT ], MAT: 08W, PM number: [ FORMTEXT ]

|                                       |   |
|---------------------------------------|---|
| <b>Project Name:</b> [ FORMTEXT ]     |   |
| <b>Executive Sponsor:</b> [REDACTED]  | <b>Business Owner:</b> [REDACTED]             |
| <b>Project Manager:</b> TBD           | <b>Core Team Members:</b> [ FORMTEXT ]        |
| <b>Project Start Date:</b> 12/04/2020 | <b>Project Completion Date:</b> 12/31/2021    |
|                                       | <b>In Service Date<sup>1</sup>:</b> 8/31/2021 |

|  |   |
|--|---|
| <b>Requested AA Amount (\$):</b> \$950,000       | <b>AA Amount Budgeted (Y/N):</b> Y          |
| <b>Estimated Full-Project Costs:</b> \$6,221,289 | <b>Full-Project Costs Budgeted (Y/N):</b> Y |
| <b>AACE Class:</b> 5                             |   |

|   |  |
|---|--|
| <b>Area:</b> Northern                             | <b>Division:</b> North Valley            |
| <b>Department:</b> Electric Distribution Planning | <b>County:</b> Plumas                    |
| <b>Receiver Cost Center:</b> 10174                | <b>NERC Compliance Required (Y/N):</b> N |

**A) Action Recommended / Advanced Authorization Scope**

It is recommended that the Senior Director of Electric Asset Strategy authorize an Advance Authorization (AA) for a total of \$950,000 for the planned rebuild of 2.2 miles with Level 1 system hardening and 1.8 miles with Level 3 system hardening construction<sup>2</sup> on the Bucks Creek 1101 circuit as part of the 2021 Wildfire System Hardening Program. This project has an estimated In Service Date of August 2021.

The Wildfire System Hardening Program is part of the overall Community Wildfire Safety Program intended to reduce the risk of future wildfire ignitions in the Tier 2&3 High Fire District by hardening the overhead system using stronger tree-wire, increasing conductor spacing, replacing open-wire secondary and non-exempt equipment, replacing some wood poles with non-wood poles (both T&D), and performing targeted undergrounding of overhead lines.

The total project cost is estimated at \$6,221,289<sup>3</sup> based on preliminary cost estimates (AACE Class 5)<sup>4</sup>. The total project cost will be updated after completion of the detailed estimate.

<sup>1</sup> The AA In Service Date is an estimated date. The In Service Date will be based lined or set with the Project Sponsor's agreement.

<sup>2</sup> Three different levels of system hardening construction could be performed: Level 1 - Tree-wire installation; Level 2 - Non-wood pole, tree-wire installation; Level 3 – underground conversion.

<sup>3</sup> Values used to develop the range are based on *08W unit cost spreadsheet*

<sup>4</sup> AACE is an acronym for the Association for the Advancement of Cost Engineering. Typically for an Advance Authorization, AACE Class level is 5. AACE, as recently adopted by the PG&E's Electrical Lines of Business, is based on historical information with X% or less of project definition understood (or 0%-2% of engineering design completed for Class 5). The probable accuracy of the AACE Class 5 cost is +100%, -50%.

**B) Project Scope (Full Project)**

The project scope of work includes following:

- Rebuild 2.2 miles of 2C/2AR with 1/0 ACSR Tree Wire with Level 1 system hardening construction.
- Rebuild 1.8 miles of 2C/2AR with 1/0 Al EPR UG cable with Level 3 system hardening construction.
- Install 1 LR
- Install 1 fuse cutouts
- Install 1 US SW w/ FI
- Replace 1 transformer with remote grid solution, approximately 4.25kW
- 5 transformer replacements
- Existing project PM# 35212441 will combine Bucks Creek 1101 into Bucks Creek 1103, eliminating BC 1103 breaker and regulator R48.

**C) Background (Full Project)**

The Wild Fire System Hardening Program is part of the overall Community Wildfire Safety Program intended to reduce the risk of future wildfire ignitions, harden the overhead system using more resilient tree-wire, replacing open-wire secondary and non-exempt equipment, replacing some wood poles with non-wood poles (both T&D) and perform targeted undergrounding of overhead lines. These projects were identified by the EC Optimization team seeking to find efficiencies between the DWSIP inspections and the hardening program. These projects specifically target sections of Distribution line where a significant number of EC tags impacting structures exist. All EC tags identified within the bounds of this conductor replacement will be closed following the completion of this project. The Wild Fire System Hardening Program (MAT-08W) is a 14-year program to apply new system hardening standards to 7,100 miles of the highest risk infrastructure within Tier 2 and Tier 3 high fire threat districts.

**D) Cost Recovery (Full Project)**

The Company expects to recover the project costs through the California Public Utilities Commission (CPUC) General Rate Case (GRC) process when the project is released to operations. The project costs are expected to be included in the Company’s base utility revenue requirement when the Project becomes operational in 2021.

If the cost cannot be recovered through the GRC, they will be recovered through the Wildfire Mitigation Plan Memo Account (WMPMA).

**E) Estimated project implementation and completion timeline**

| Description of the Phases and Key Milestones/Deliverables                           | Target Completion Date           |
|---|----------------------------------|
| Advance Authorization   | December 2020                    |
| <i>Project Field Scoping Meeting</i>  | To be determined by project team |
| <i>Land and Environmental Review Start</i>  |                                  |
| <i>Project Walk down Meeting</i>  |                                  |
| Job Scope Approval  |                                  |
| <i>Engineering and Design Start</i>   |                                  |
| <i>Land and Environmental Review Complete</i>                                       |                                  |
| Gate 1: Project Authorization (Gate 1 of 2) <If Gated at this time, show all gates> |                                  |
| <i>Permit to Construct Application</i>  |                                  |
| <i>Long Lead Material Procurement Start</i>   |                                  |

|  |         |
|--|---------|
| <i>Engineering and Design Complete</i>   |         |
| Job Estimate Approval  |         |
| <i>Permit to Construct Effective</i>   |         |
| <i>Gate 2: Project Authorization (Gate 2 of 2) &lt; If Gated at this time, show all gates &gt;</i> |         |
| <i>Materials Ordered</i>   |         |
| <i>Materials Delivered</i>   |         |
| <i>Construction Start</i>  |         |
| Estimated-In Service Date  | 8/2021  |
| Project Close Out  | 12/2021 |

**F) Advanced Authorization Cost Breakdown**

| Category  | Planning Order | MWC | Estimated Cost (\$1,000) |              |
|---|----------------|-----|--------------------------|--------------|
|   |                |     | Expense                  | Capital      |
| Advance Engineering, PM, and Est. Work                      | 5794208        | 08  |                          | \$100        |
| Land Department Review                                      |                | 08  |                          | \$100        |
| Environmental Review  |                | 08  |                          | \$100        |
| Advance Material Purchase                                   |                | 08  |                          | \$100        |
| Urgent Construction Work                                    |                | 08  |                          | \$550        |
| <b>Totals (Expense and Capital) (x1000):</b>                |                |     |                          | <b>\$950</b> |
| <b>Total Advanced Reauthorization Requested (x\$1,000):</b> |                |     |                          | <b>\$950</b> |

**Spending Plan (in \$000)**

| Category            | Spend To Date | Year Month | Year Month | Year Month | Year Month   | AA Totals    |
|---------------------|---------------|------------|------------|------------|--------------|--------------|
| Engineering         |               |            |            |            | \$100        | \$100        |
| Land/Permitting     |               |            |            |            | \$100        | \$100        |
| Environmental       |               |            |            |            | \$100        | \$100        |
| Material            |               |            |            |            | \$100        | \$100        |
| Urgent Construction |               |            |            |            | \$550        | \$550        |
| <b>TOTAL</b>        |               |            |            |            | <b>\$950</b> | <b>\$950</b> |

**G) Issues and Risks<sup>4</sup>**

| Risk Description | Likelihood (H,M,L) | Mitigation Strategy |
|------------------|--------------------|---------------------|
| Resources        | H                  | TBD                 |
| Schedule         | M                  | TBD                 |
| Scope            | L                  | TBD                 |

**H) Long Lead Time Materials Risk<sup>5</sup>**

All materials are or will be standard items in common use in the PG&E system and can be easily repurposed if the project is re-scoped, deferred, or cancelled.

**I) Additional Information**

- List any land, permitting, environmental, cultural, or regulatory issues? None known
- Mean MAVP Core Risk Rank: 11

- DX Prioritization Version: [ FORMTEXT ]
- HFTD: Tier 2&3
- Project Customer Count: 5
- RIBA Score: 3154

**J) Approvals**

|   |      |     |
|---|------|-----|
| <b>Recommended:</b> B&V ( [REDACTED] ) – Electrical Distribution Engineer | Date | DRS |
| <b>Reviewed:</b> [ FORMTEXT ] – Electrical Distribution Engr, SR          | Date | DRS |
| <b>Approved:</b> [ FORMTEXT ] – Supervisor, Elec. Dist. Rel. Planning     | Date | DRS |
| <b>Approved:</b> [REDACTED] – Manager, Grid Design                        | Date | DRS |
| <b>Approved:</b> [REDACTED] – Director, Distribution Asset                | Date | DRS |

<sup>4</sup> AA Spending Plan will be developed and managed by the Project Manager.  
<sup>5</sup>Issues and Risks including mitigation plans will be developed and managed by the Project Manager.

Distribution:

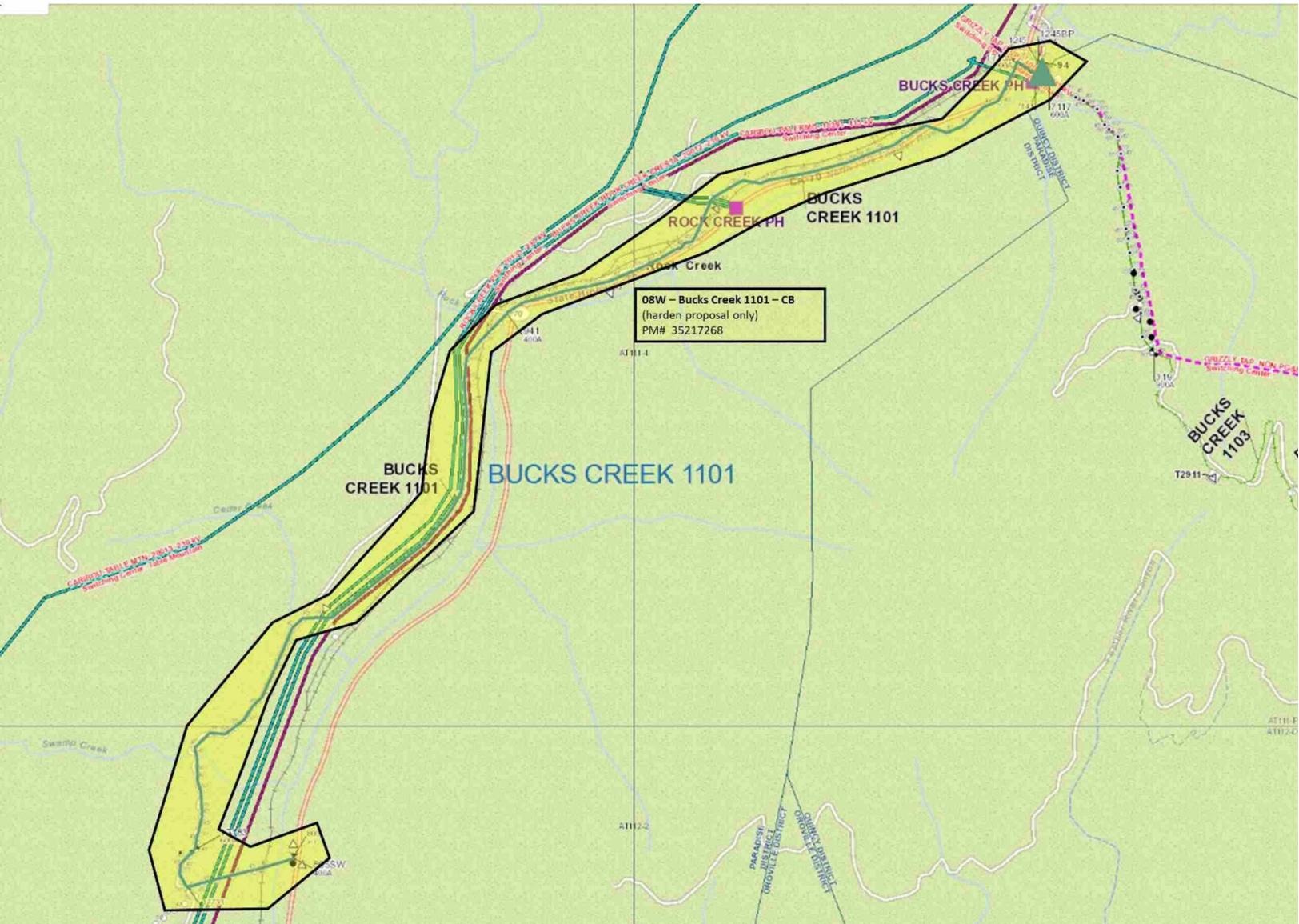
|     |              |              |  |
|-----|--------------|--------------|--|
| cc: | [REDACTED]   | [REDACTED]   | Sr Manager, Electric Distribution Planning |
|     |              |              | Manager, Electric Program Management CWSP  |
|     |              |              | Sr Cnsltng Project Manager CWSP            |
|     |              |              | Manager, Internal Estimating & Design CWSP |
|     |              |              | Director, Distribution Strategy            |
|     |              |              | Director, Reliability & Capacity Planning  |
|     |              |              | Senior Director’s Assistant                |
|     |              |              | Manager, Electric Distribution Planning    |
|     |              |              | Project Manager                            |
|     | [ FORMTEXT ] | [ FORMTEXT ] | Wildfire Risk Analyst, Principal           |

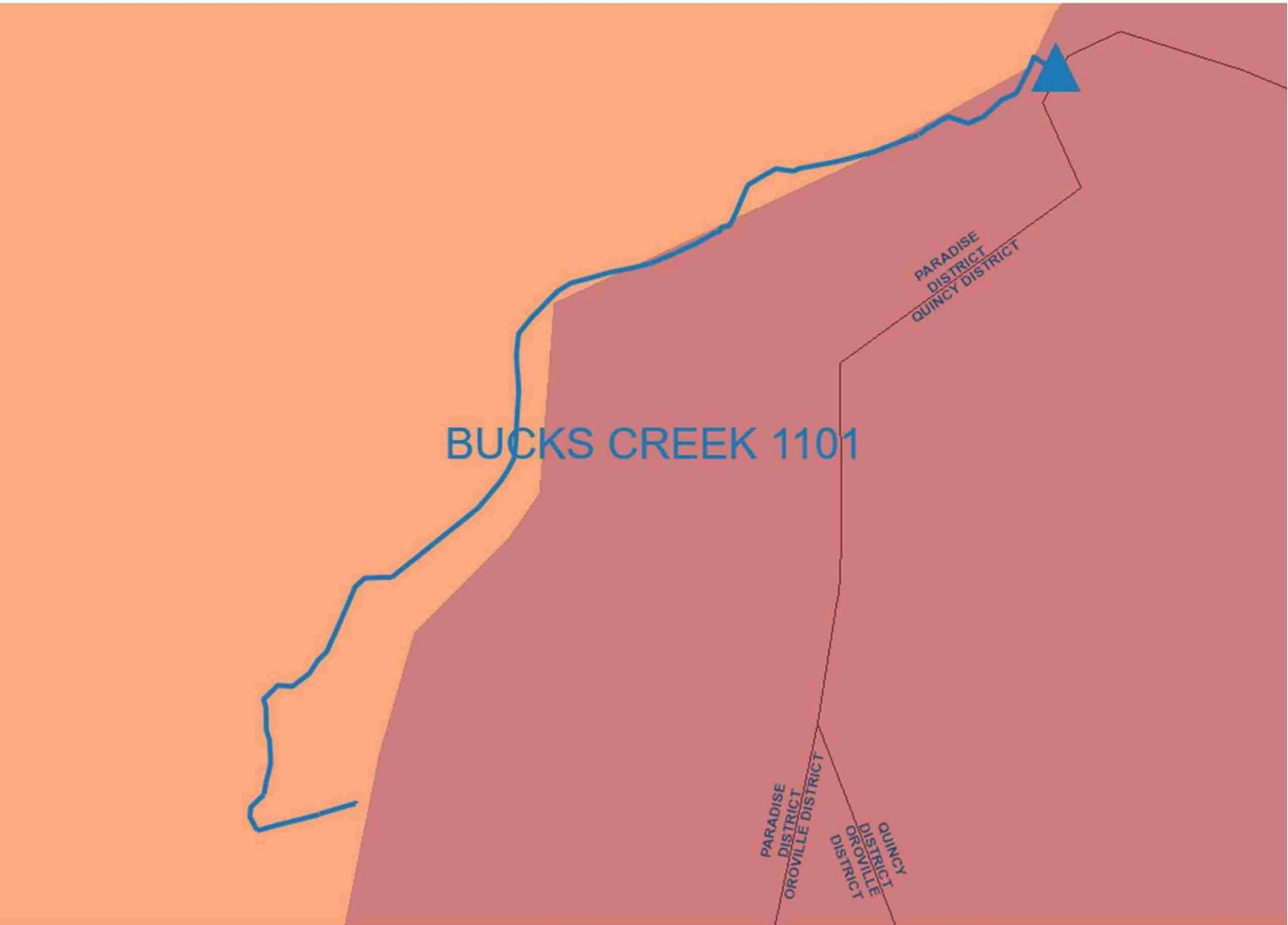
**K) Attachments**

List name of attachments such as Vicinity Maps, Key Sketch

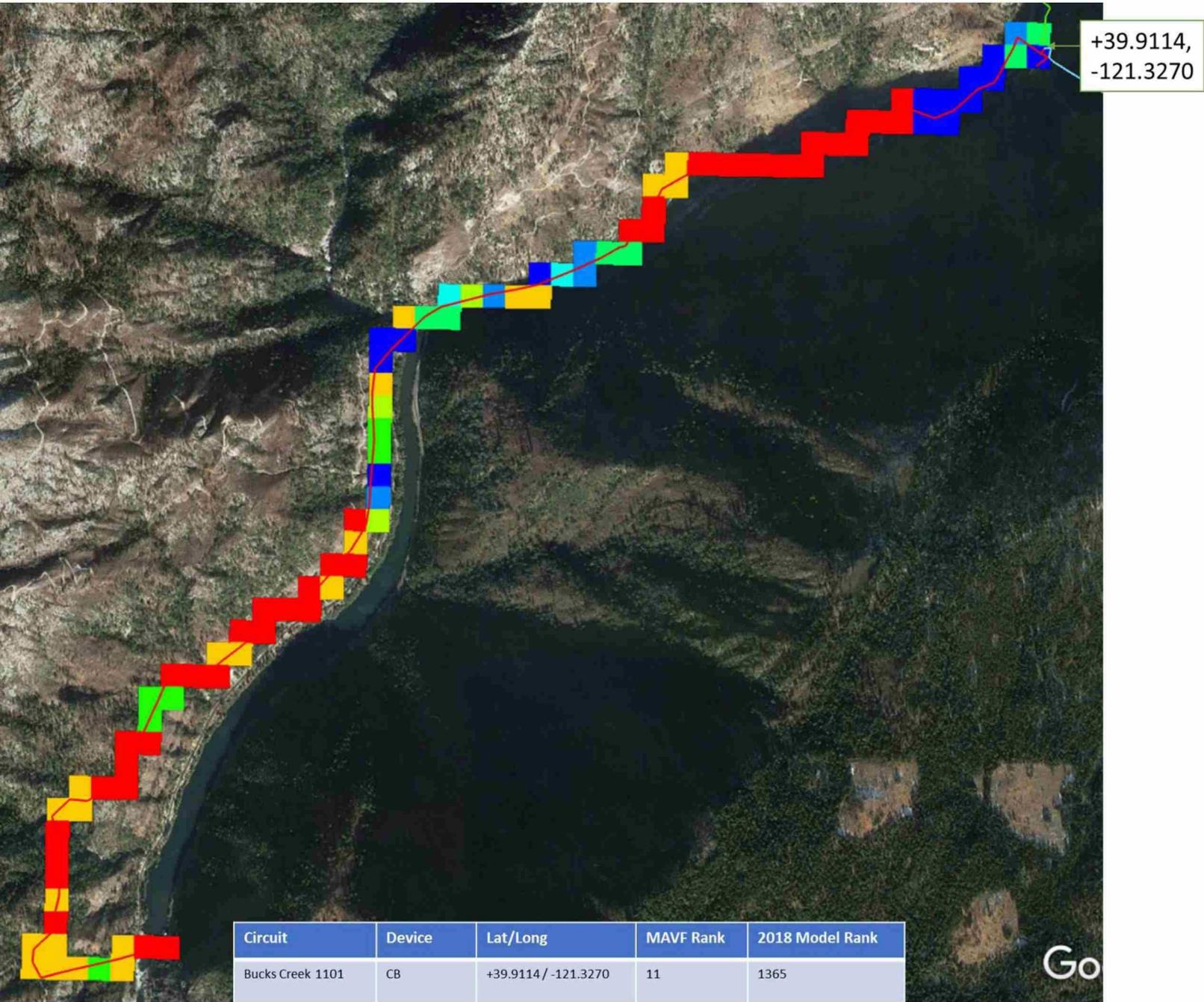
1. Overview Circuit Map (EDRS – see below)
2. FIA Zone Map (EDRS – see below)
3. HFTD Map (EDRS)
4. Detailed Drawing (EDRS)
5. Satellite Map (EDRS – see below)
6. Detailed Drawing Worksheet (EDRS)
7. KMZ File (EDRS)
8. EC Tag List (EDRS)

Overview Sketch





Zone Map



Satellite View

